

1/33

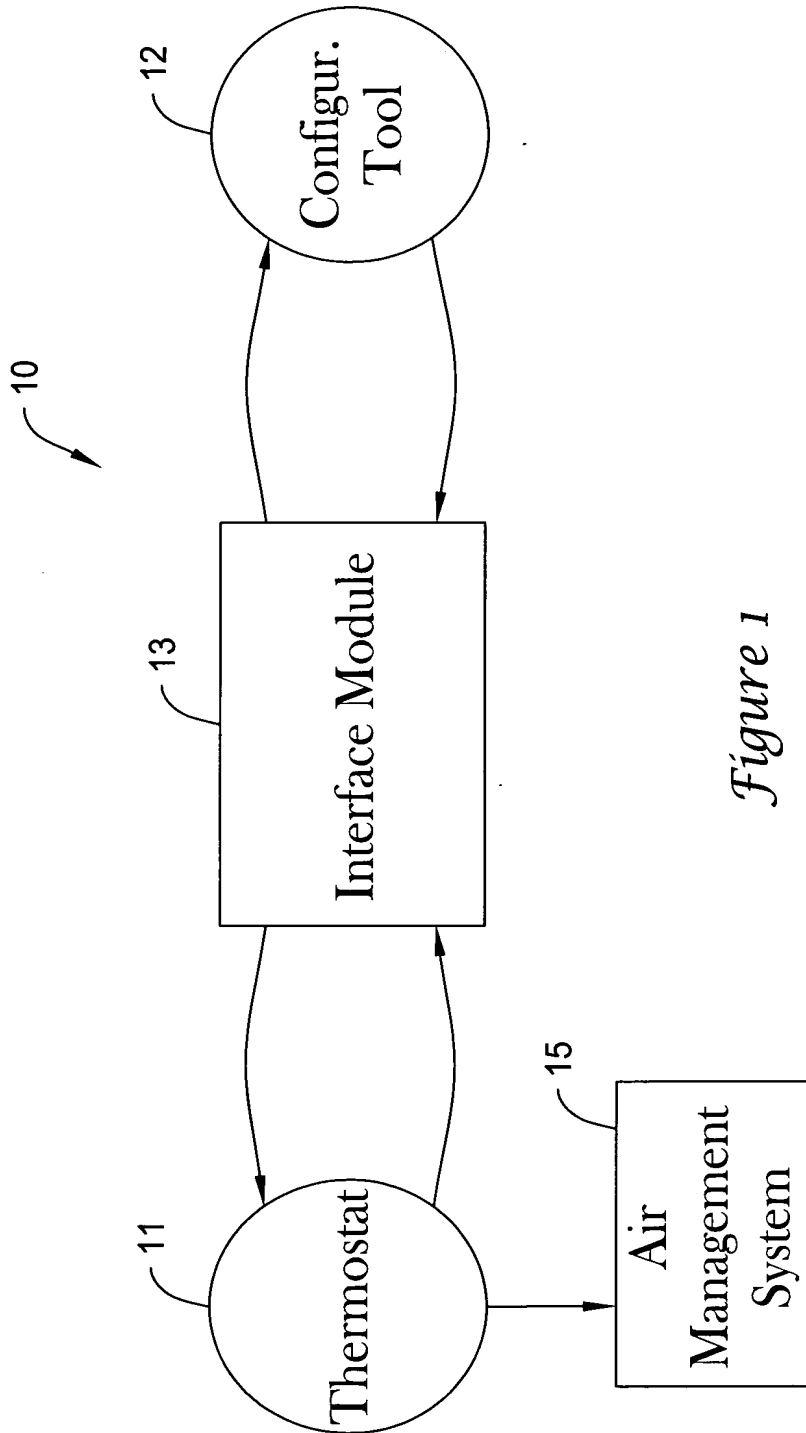


Figure 1

2/33

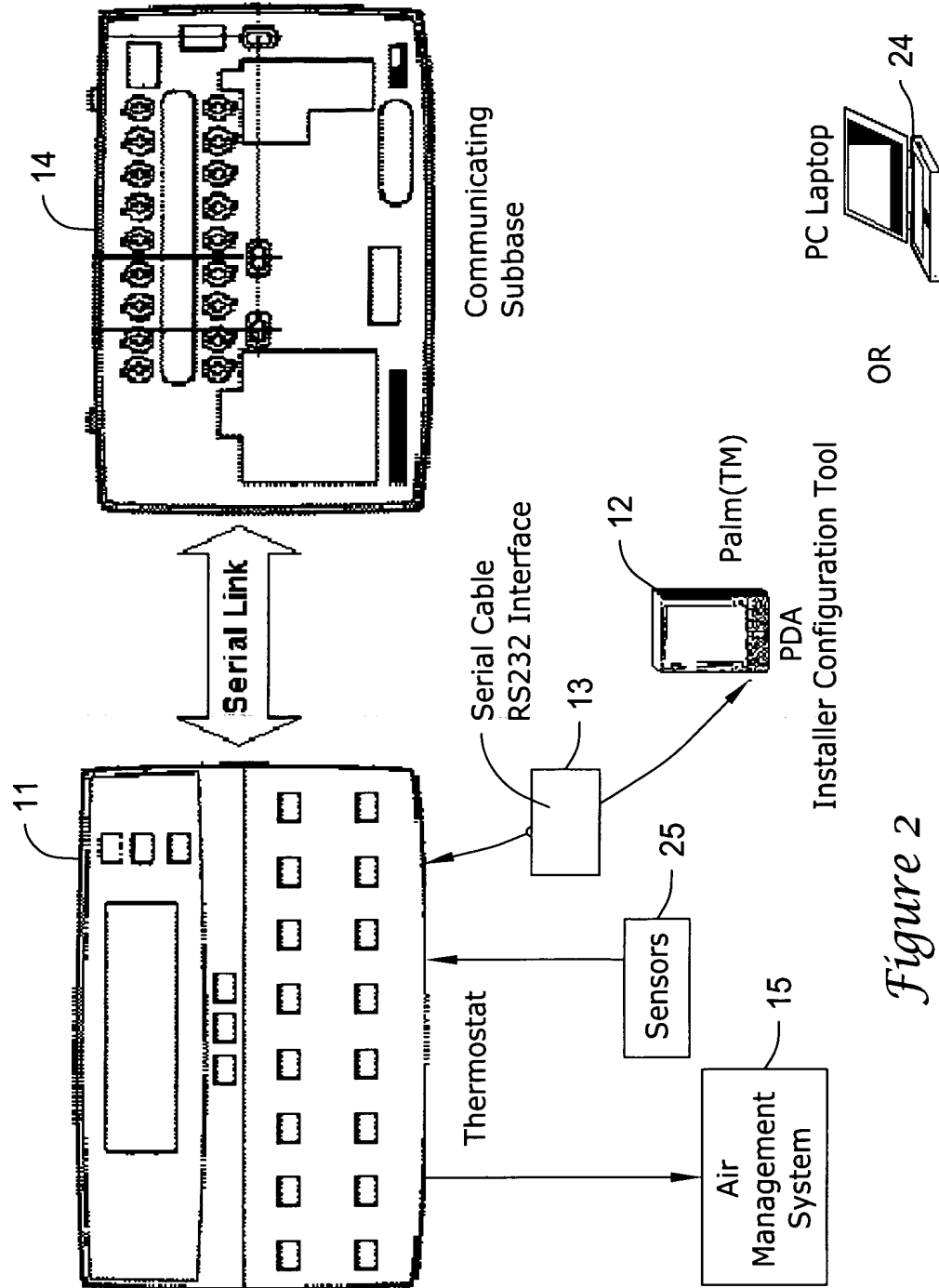


Figure 2

3/33

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data Holidays Wkly Schedule
 Set Clock
 Temp SetPts
 Upload Config
 New Config
 ▼ Select Existing Config

Figure 3A

Summary ▼ Select Setup

Config Name: New Config
Description: 120 character description which is user entered

Model: ▼ Mod1_Basic
Control: Standard Heat Pmp
Cnfg ID: 00

DownLd Back Next Save SaveAs

Figure 3B

T7350 Configuration Tool
 Version: 0.0.d.5

Temp SetPts Set Clock Monitor Data New Config
 Holidays Wkly Schedule Upload Config
 ▼ Select Existing Config

Figure 4A

T7350 Configuration Tool

DEFAULT Example1 Example2 Example3 Example4 New Config
 Holidays Schedule d Config

Figure 4B

Summary

Config Name: Example2
Description: T7350B model supports: 6 relays, remote space sensor, DHT, OHT

Model: ▼ T7350B (6DigOut)
Control: Standard Heat Pmp
Cnfg ID: 22

DownLd Back Next Save SaveAs

Figure 4C

Summary

Config Name: Example2
Description: T7350B model supports: 6 relays, remote space sensor, DHT, OHT

Connecting to T7350
 Please connect PDA serial port to the T7350 using serial cable.

OK Cancel

Figure 4D

4/33

T7350 Configuration Tool
 Version: 0.0.d.18d

Buttons: Override, Monitor Data, Set Clock, Holidays, Temp SetPts, Wkly Schedule, Upload Config, New Config

▼ Select Existing Config

Figure 5A

Summary ▼ Select Setup

Config Name: New Config

Description: 120 character description which is user entered

Model: ▼ Mod1_Basic

Control: Standard Heat Pmp

Config ID: 00

Buttons: DownLd, Back, Next, Save, SaveRs

Figure 5B

Summary

Config Name: New Config

Description:

Connecting to T7350

Please connect PDA serial port to the T7350 using serial cable.

Buttons: OK, Cancel

Figure 5C

T7350 Configuration Tool
 Version: 0.0.d.18d

Buttons: Override, Monitor Data, Set Clock, Holidays, Temp SetPts, Wkly Schedule, Upload Config, New Config

▼ Select Existing Config

Figure 6A

T7350 Configuration Tool
 Version: 0.0.d.5

Connecting to T7350

Please connect PDA serial port to the T7350 using serial cable.

Buttons: OK, Cancel

Figure 6B

Summary ▼ Select Setup

Config Name: XYZ

Description: Customer XYZ summary information

Model: ▼ Mod1_Basic

Control: Standard Heat Pmp

Config ID: 00

Buttons: DownLd, Back, Next, Save, SaveRs

Figure 6C

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Summary
Config Name: XYZ
Description:
 A short description of customer
 XYZ configuration.
Connecting to T7350
 Please connect PDA
 serial port to the T7350
 using serial cable.
 OK Cancel

Figure 6D

File Connect Setup Help
Download
Upload
Monitor
Set Clock
Calibrate
Model:
Control:
 Download Next Save As Save

Figure 7A

Room Temp Calibrate
Actual Value: 68.4 F
Edit Value: 68.4 F
Offset: -3 F
 Calibrate Refresh Close Close

Figure 7B

T7350 Configuration Tool
 Version: 0.0.d.18d
 Override Monitor Data
 Set Clock Holidays
 Temp SetPts Wkly Schedule
 Upload Config
 New Config
 Select Existing Config

Figure 8A

T7350
Configuration Tool
 Version: 0.0.d.5
Connecting to T7350
 Please connect PDA
 serial port to the T7350
 using serial cable.
 OK Cancel

Figure 8B

Summary
Config Name: U04/09/03 11:05
Description:
 Upload: 04/09/2003 11:05 am
 Firmware: 0.0.14, ComY: 1002
 rePrgrY: 1, SubBaseID: 3
Model: T7350D_3H3C_RH
Control: Standard Heat Pmp
 ConfigID Back Next Save Save As Download

Figure 8C

6/33

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data
 Set Clock Holidays
 Temp SetPts Wkly Schedule
 Upload Config
 New Config
 ▼ Select Existing Config

Figure 8D

Summary

Config Name: Example3
 Description:
 T7350C SmartStat supports: 6
 Relays: remote space sensor, DAT,
 QHT, RH, Occ sensor
 Model: ▼ T7350C (6DigOut+RH)
 Control: Standard Heat Pmp
 Cnfg ID: 23
 Download Back Next Save SaveAs

Figure 9A

Outputs

RunDO:
 Time of Day
 Economizer
 Dehumid Hot Gas BP
 Simple Dehumid
 Back Next

Figure 9C

Monitor Data

SubBaseID: T7350D,3H3C,RH
 FirmwareVersion: 0.0.19
 Room Temperature: 79.2 F
 EffectiveSetPoint: 75.0 F
 RoomRH: 31 %
 Dehumidification: Off
 DischargeAir Temp: 70.3 F
 Update Close

Figure 8E

Inputs

Room Temp: Local Remote Rmt+StPt
 Room Rel Humidity: Local Remote
 Occ Sensor: None Remote
 Discharge Air Temp: None Remote
 Outdoor Air Temp: None Remote
 Back Next

Figure 9B

Cooling Config

Stages: 0 1 2 3
 Cooling Response: Std 3 cph Fast 4 cph
☒ Enable OAT Lockout
 OAT SetPt 35 F
☒ Enable DAT Low Limit
 DAT SetPt 45 F
 Back Next

Figure 9D

7/33

SetPoints

	Heating	Cooling
Occupied	70	75 F
Standby	67	78 F
UnOcc	55	85 F
Occupied SetPt Stops	55	85 F

TempOverride: 3 Hrs

Back Next Download

Figure 9I

Summary

Config Name: ExampleModelID

Description:
T7350D model supports: 6 Relays,
remote space sensor, DRT, ORT,
RH, Occ sensor

Model: T7350D.3H3C.RH

Control: Standard Heat Pmp

CnfgID

Back Next Save Download SaveIs

Figure 9J

Weekly Schedule

Select New Schedule

SaveIs Delete Modify

MON 08:00 am OCC

--- 10:00 pm UNOCC

TUE 08:00 am OCC

--- 10:00 pm UNOCC

WED 08:00 am OCC

--- 10:00 pm UNOCC

THU 08:00 am OCC

Back Next Download

Figure 9G

Modify Schedule

Day: Monday

Event# -- Mode -- -- Time --

1 Occupied 08:00 am

2 Unoccupied 10:00 pm

3 None 12:00 am

4 None 12:00 am

CopyDayTo Sun Sat Hol

M T W T F

OK

Figure 9H

Heating Config

Stages: 0 1 2 3

Heating Std 3cph Med 6cph

Response: Fast 9cph Fast1120cph

☒ Enable ORT Lockout

ORT SetPt 70 F

☒ Enable DRT High Limit

DRT SetPt 110 F

Back Next

Figure 9E

Fan

FanSwitch: On Auto

FanOperation: Conventional Electric Heat

Heat: No Extended Op Extend 90 sec

Cool: No Extended Op Extend 90 sec

Back Next

Figure 9F

Dehumidification

High Limit: 65 %

Dehumid Options:

☒ Min ON Time 5 min

☒ Reheat

☒ Reset Temp SetPt 1 F

Spin Speed 1X 10X

OK

Figure 10E

Energy Management

Demand Limit

Control Bump: 3 F

Power Failure

Seq Start: 0 sec

OK

Figure 10F

File Com Set Sched Opt

Config Name: ES

Description: T7350D model sup. remote space sensor, RH, Occ sensor

Model: T7350D_3H3C_RH

Control: Standard Heat Pmp

CnfgID

Back Next Save SaveAs

DownLd

Figure 10C

Display

Units: F C

Rm Temp: Display NoDisplay

Occupied SetPoint Stops

Min 55 F Max 85 F

Clock: AM/PM 24 hr

Key Pad: Enable All

SysSwitch: OFF

OK

Figure 10D

Summary

Config Name: ExampleModelID

Description: T7350D model supports: 6 Relays, remote space sensor, DHT, OHT, RH, Occ sensor

Model: T7350D_3H3C_RH

Control: Standard Heat Pmp

CnfgID

Back Next Save SaveAs

DownLd

Figure 10A

File Com Set Sched Opt

Config Name: Home

Description: T7350D model supports: 6 Relays, remote space sensor, DHT, OHT, RH, Occ sensor

Model: T7350D_3H3C_RH

Control: Standard Heat Pmp

CnfgID

Back Next Save SaveAs

DownLd

Figure 10B

9/33

Modify Holiday

▼ New Years Day
 New Years Day

Start Month: ▼ Jan

Start Day: 1

Duration: 1 Day

Spin Speed 1X 10X

OK

Figure 10K

Modify Holiday

▼ New Years Day
 Memorial Day
 Independence Day
 Labor Day
 Thanksgiving
 Christmas
 Hol 7
 Hol 8
 Hol 9
 Hol 10

Spin Speed 1X 10X

OK

Figure 10L

Day Light Saving

Start Month: ▼ Apr

Start Day: FirstSun

Stop Month: ▼ Oct

Stop Day: LastSun

Spin Speed 1X 10X

OK

Figure 10I

Holiday

▼ Select New Holiday Group

Saves Delete Modify

New Years Day
 Jan 1, Dur:1
 Memorial Day
 May LastMon, Dur:1
 Independence Day
 Jul 4, Dur:1
 Labor Day

Spin Speed 1X 10X

OK DownLoad

Figure 10J

Loop Tuning

Heating Cooling

TR 7 7 F

IT 1650 1650 sec

DT 0 0 sec

Anticipator Authority: 4 F

Apply To Htg Htg&Clg

Spin Speed 1X 10X 100X

OK

Figure 10G

Recovery

Cool Heat

ORT@Min: 90 0 F

Ramp Min: 3 5 F/hr

ORT@Max: 70 40 F

Ramp Max: 6 8 F/hr

LeadTime -Cool-Heat-
 MaxRange 1.8 to 3.5 2.0 to 3.1 hr

Spin Speed 1X 10X 100X

OK LeadTimeInfo

Figure 10H

10/33

User Preferences

Units: SI(C) US(F)

OS Alert Msg: Yes No

Lock Defaults: Yes No

OK

Figure 11A

UNITS: Config Tool units preference

OS ALERT MSG: Disable unsupported Palm OS Message.

LOCK DEFAULTS: Lock default configuration files.

General Tstat Config - file name

DEFAULT

Weekly Schedule - file name

DEFAULT

Holiday Schedule- file name

Close

Figure 11B

File Com Set Sched Opt

New Open Save Save As Beam Delete

Model: T7350R (Basic)

Control: Standard Heat Pmp

Config ID: 21

DownLd Back Next Save SaveAs

Figure 12A

New Configuration

Current: Example1

Save Current Config

Existing Configs: ABCRootTopGasHt Customer XYZ DEFAULT Example1 Example2 Example3 Example4 New Config

Cancel New Config NewName

Figure 12B

Open Configuration

Current: Example1

Save Current Config

Select Config: ABCRootTopGasHt Customer XYZ DEFAULT Example1 Example2 Example3 Example4 New Config

Cancel Open

Figure 12C

Save Configuration As

Existing Configs: ABCRootTopGasHt Customer XYZ DEFAULT Example1 Example2 Example3 Example4 New Config

Cancel SaveAs NewName

Figure 12D

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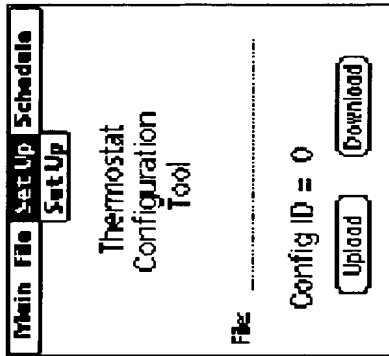


Figure 14C

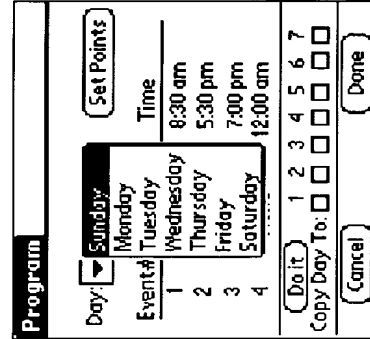


Figure 14D

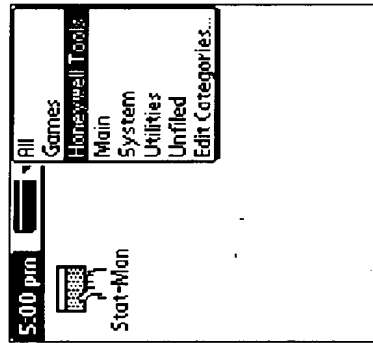


Figure 14A

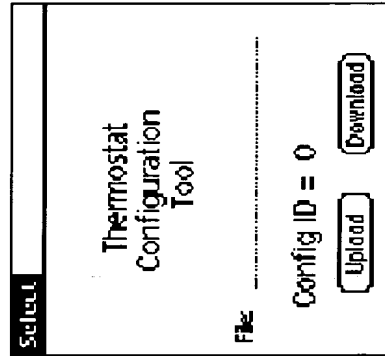


Figure 14B

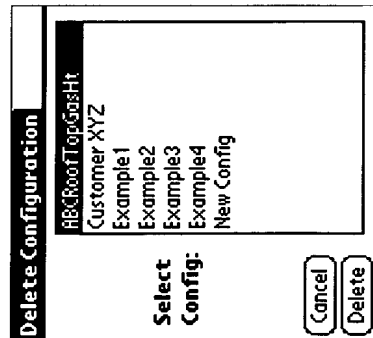


Figure 12E

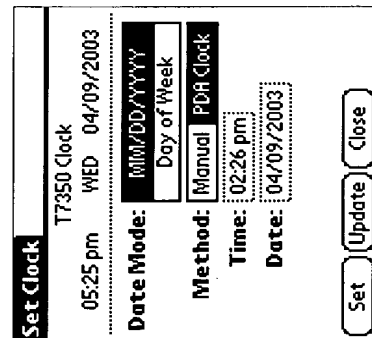


Figure 13

12/33

Installer Set Up

Temperature Units

Clock Format

Fan Behavior

Program from Keyboard

Figure 14I

Set Up 2

Heat Stages

Cool Stages

Energize Fan For

Sensor Location

Figure 14J

Program

Day:

Event# Mode Time

1 8:30 am

2 5:30 am

Select Event Time

8 :

Figure 14G

Set Points

Cooling Heating

Occupied 72 70

Standby 75 68

Unoccupied 80 60

Figure 14H

Program

Day:

Event# Mode Time

1 8:30 am

2 5:30 pm

3 7:00 pm

4 12:00 am

1 2 3 4 5 6 7

Copy Day To:

Figure 14E

Program

Day:

Event# Mode Time

1 3:30 am

2 5:30 pm

3 2:00 am

4 2:00 am

1 2 3 4 5 6 7

Copy Day To:

Figure 14F

13/33

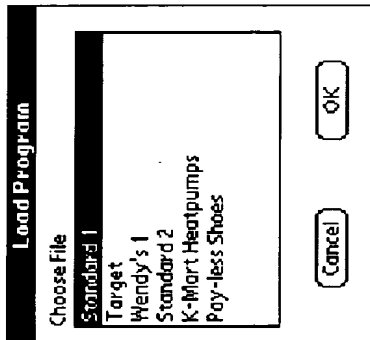


Figure 14K

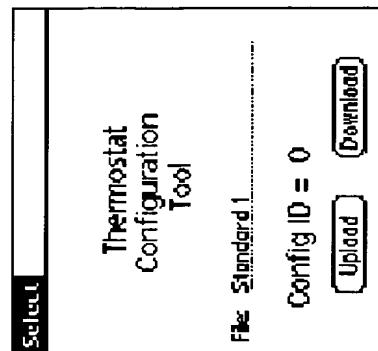


Figure 14L

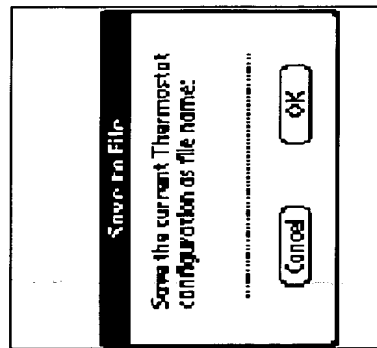


Figure 14M

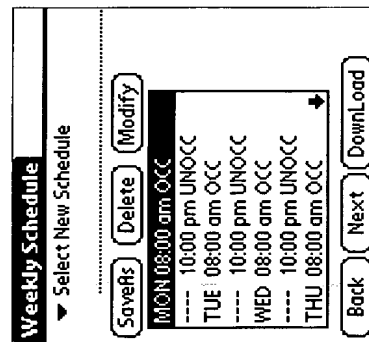


Figure 14N

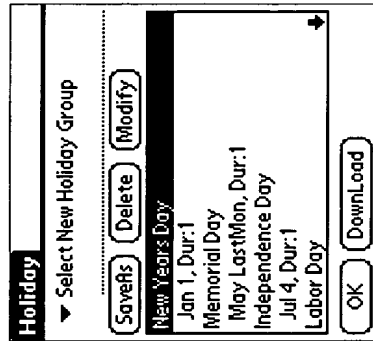


Figure 14O

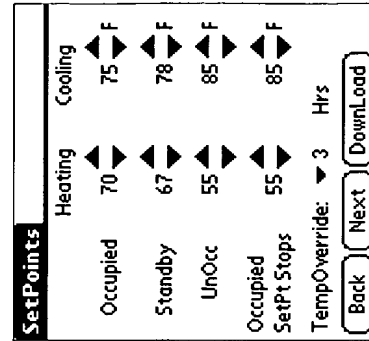


Figure 14P

14/33

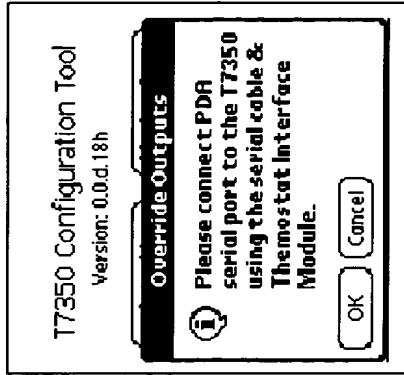


Figure 14U

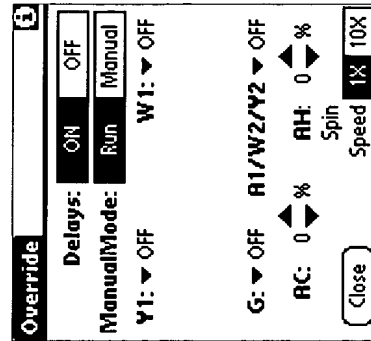


Figure 14V

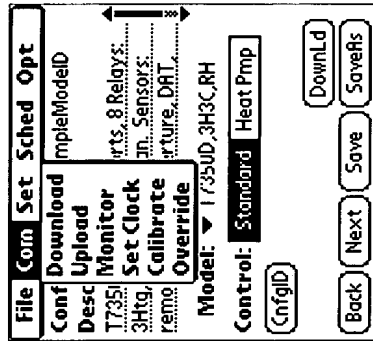


Figure 14S

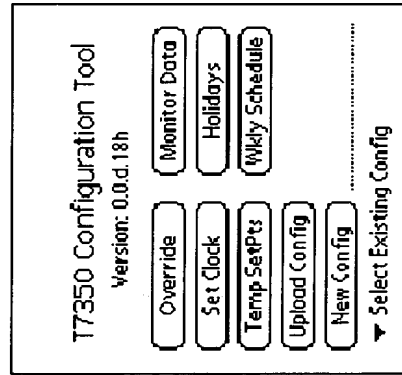


Figure 14T

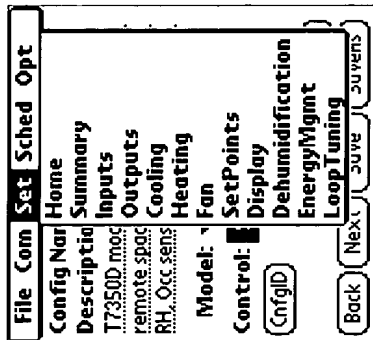


Figure 14Q

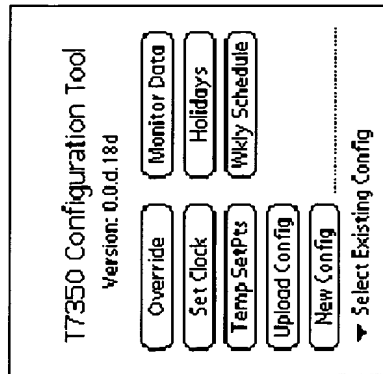


Figure 14R

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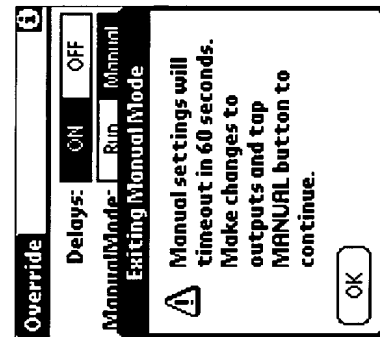


Figure 14Y

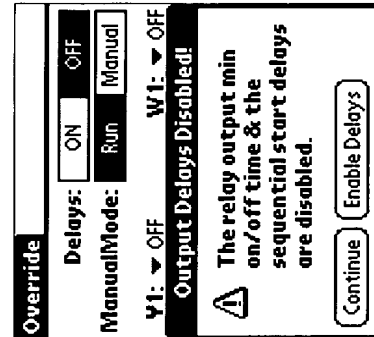


Figure 14Z

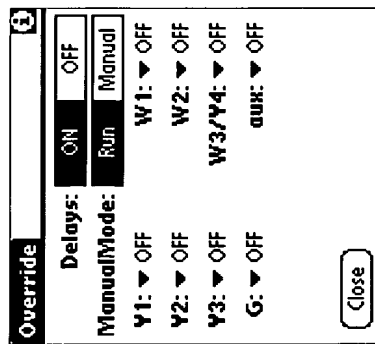


Figure 14W

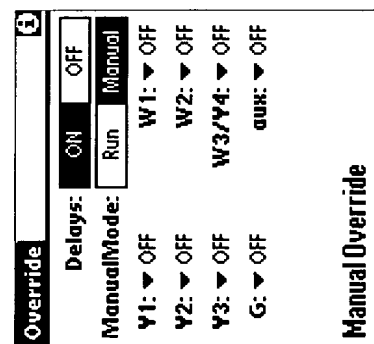


Figure 14X

16/33

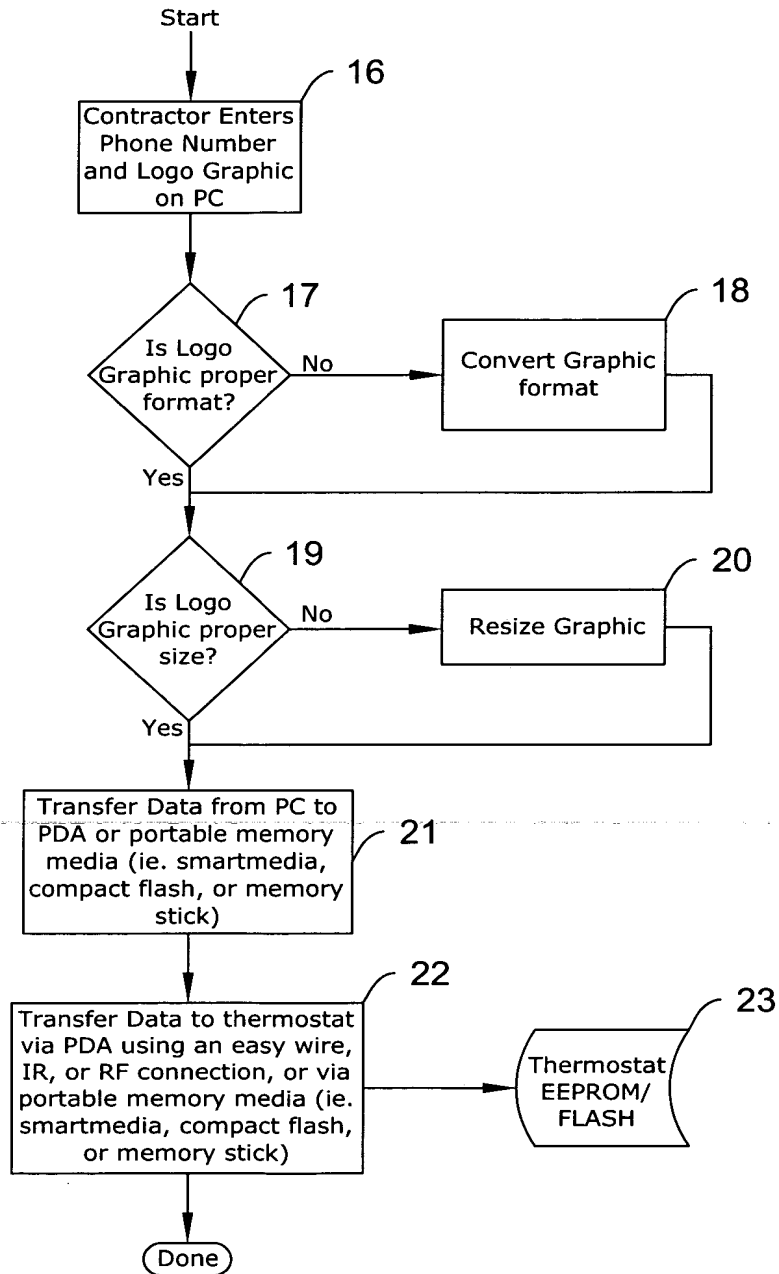


Figure 15

17/33

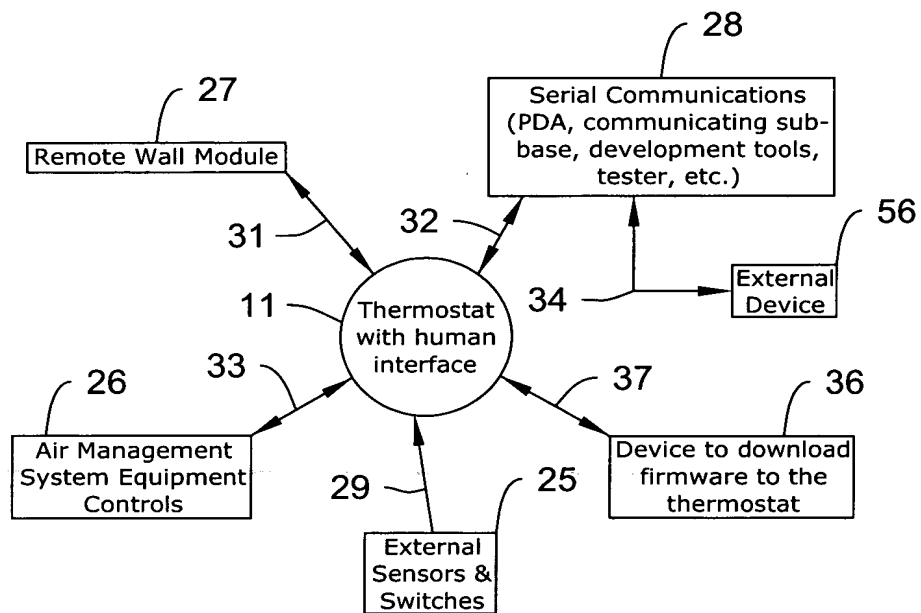


Figure 16

18/33

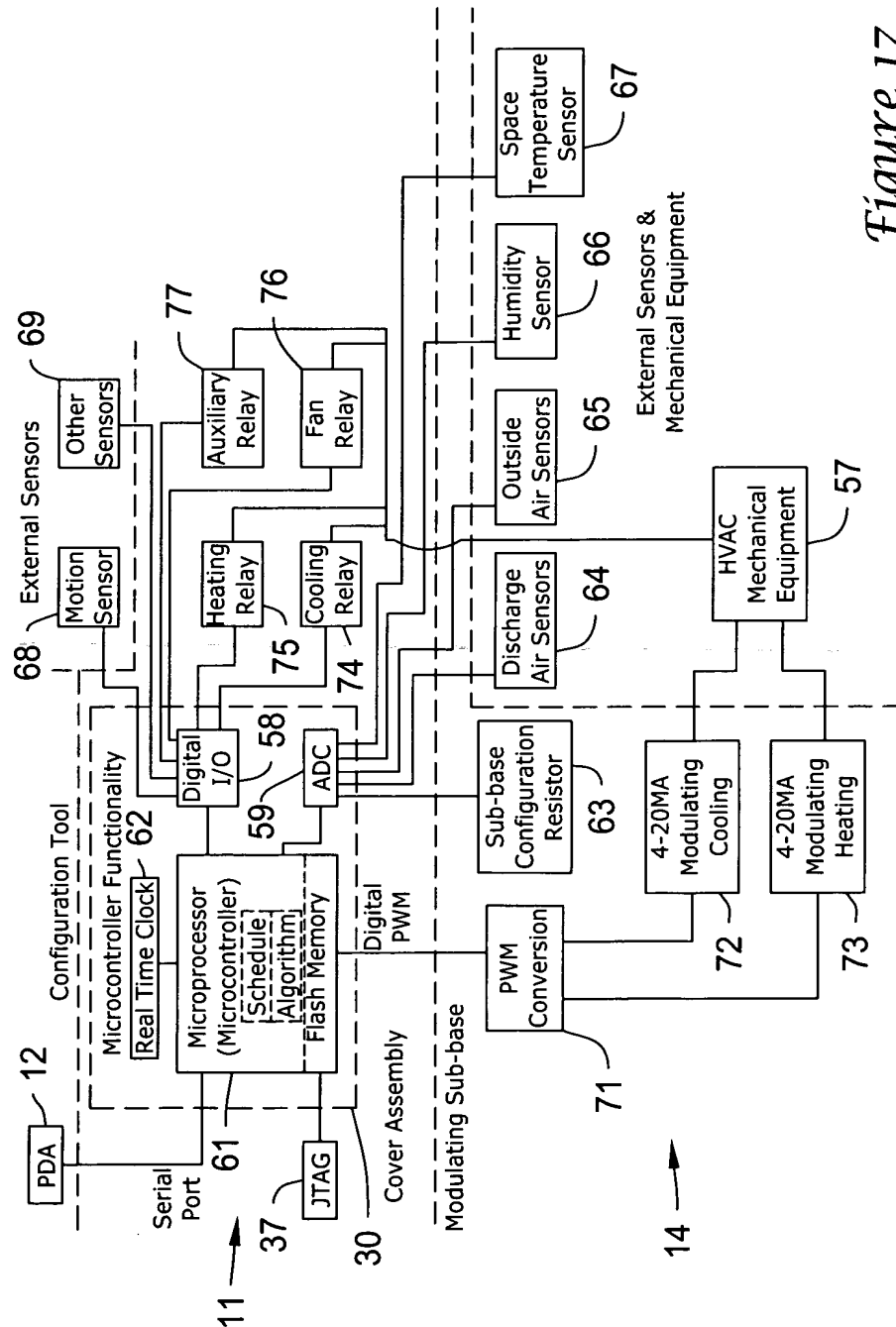


Figure 17

19/33

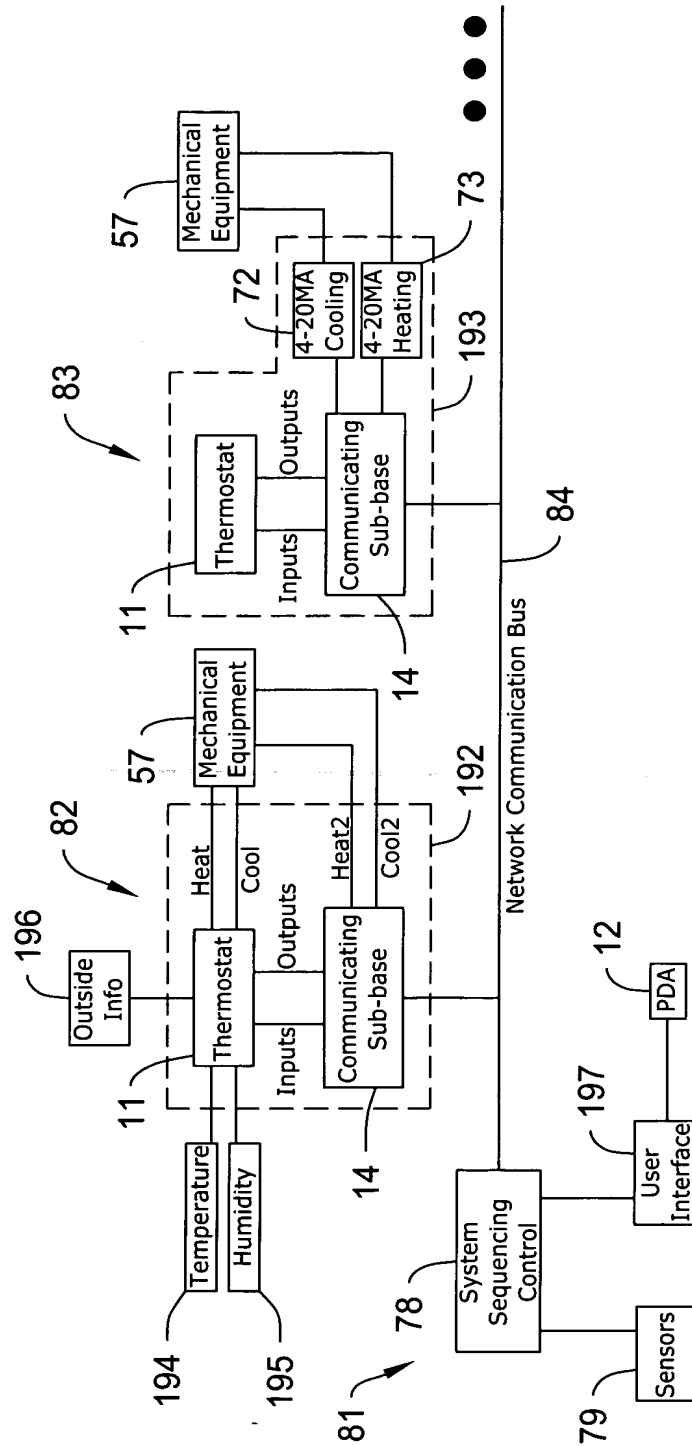


Figure 18

20/33

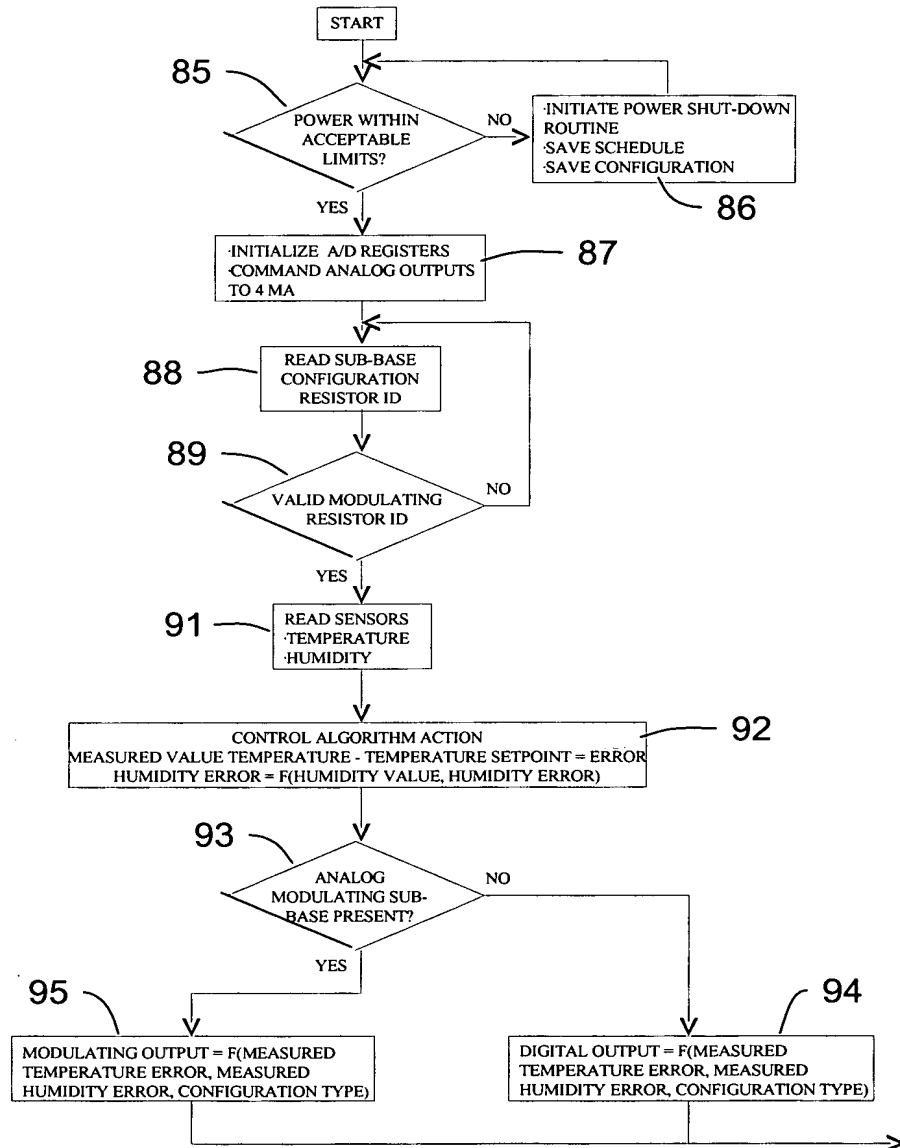


Figure 19

21/33

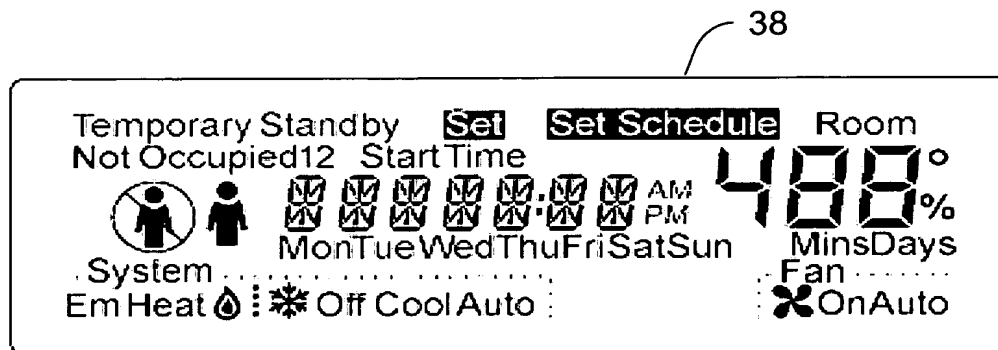


Figure 20A

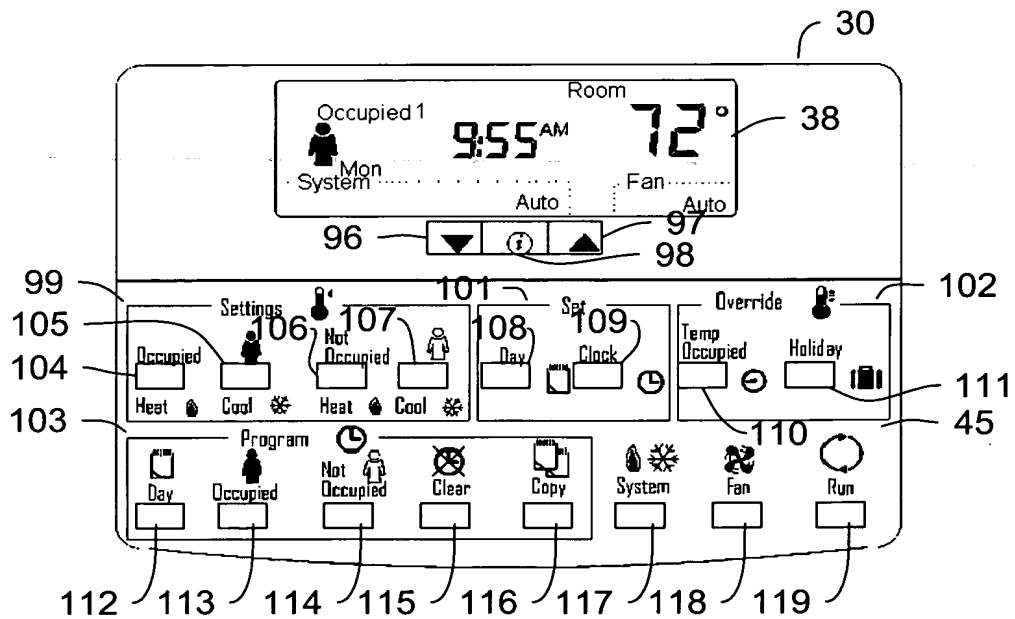


Figure 20B

22/33

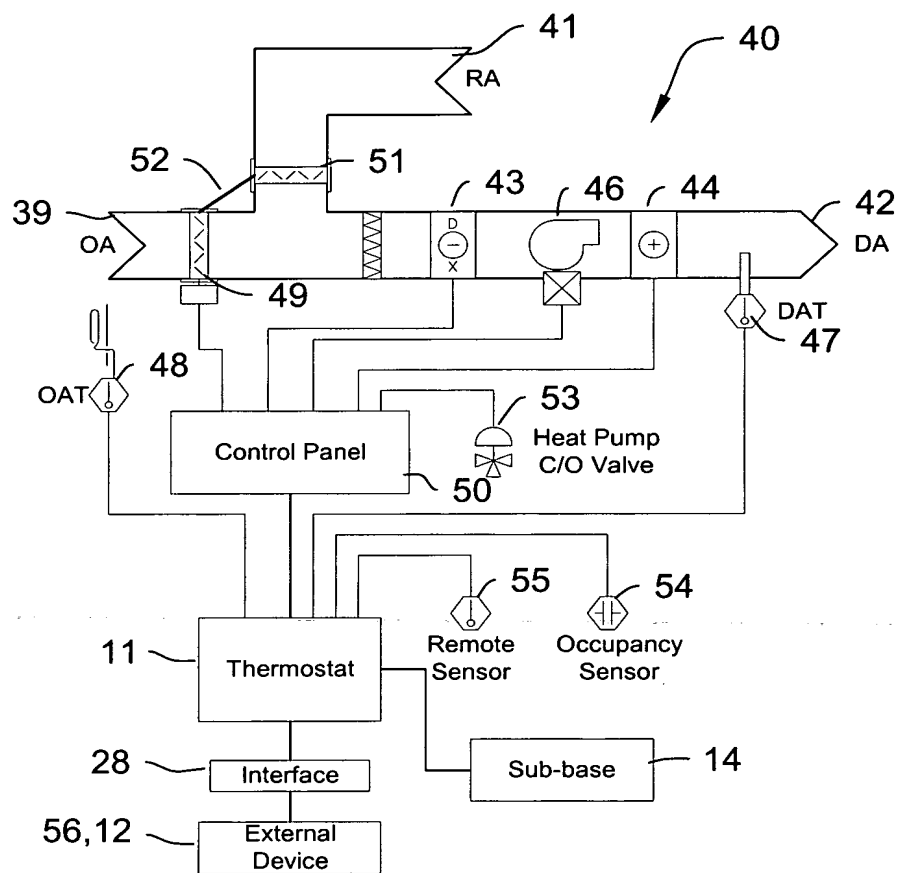


Figure 21

23/33

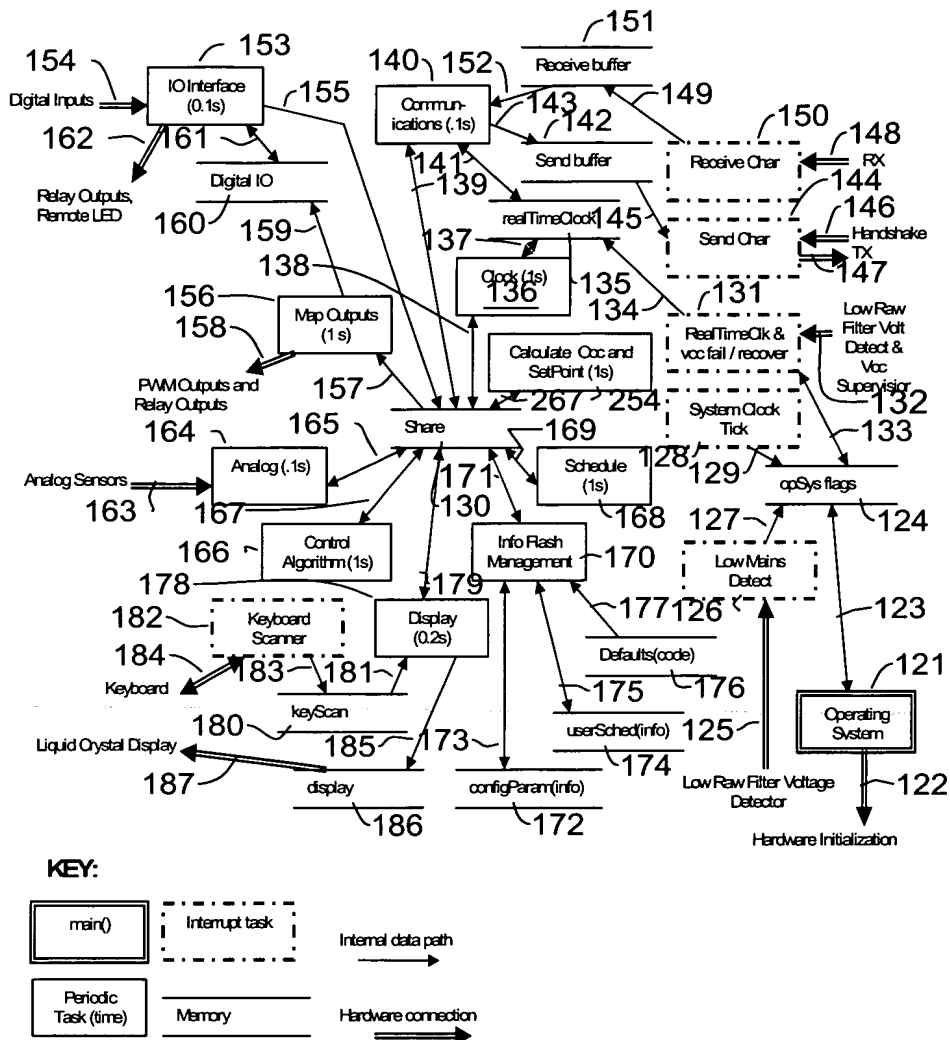


Figure 22

24/33

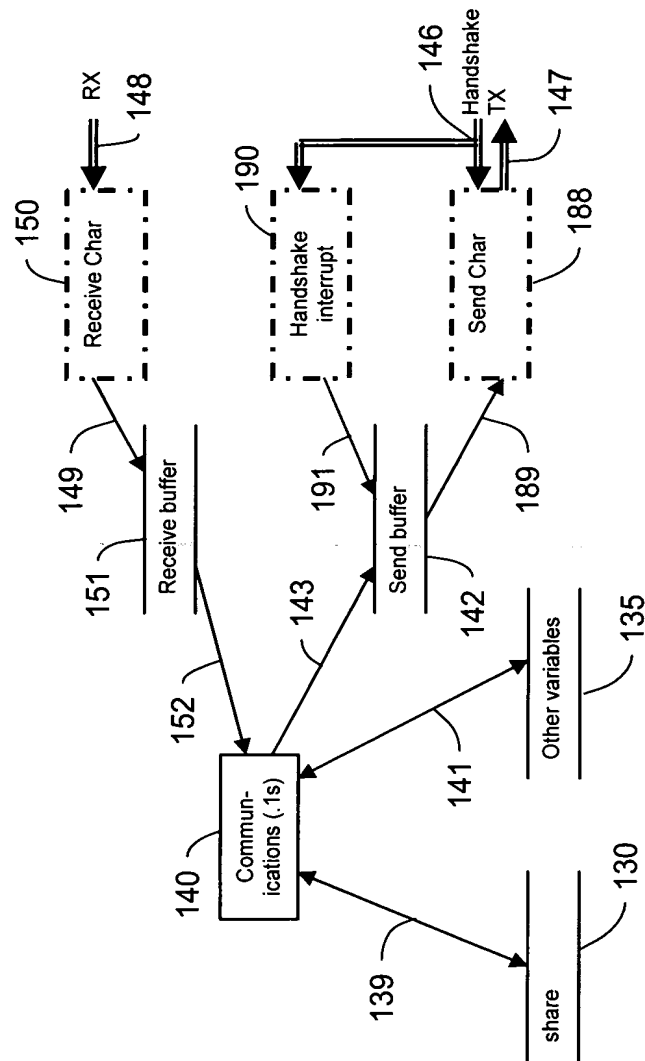


Figure 23

25/33

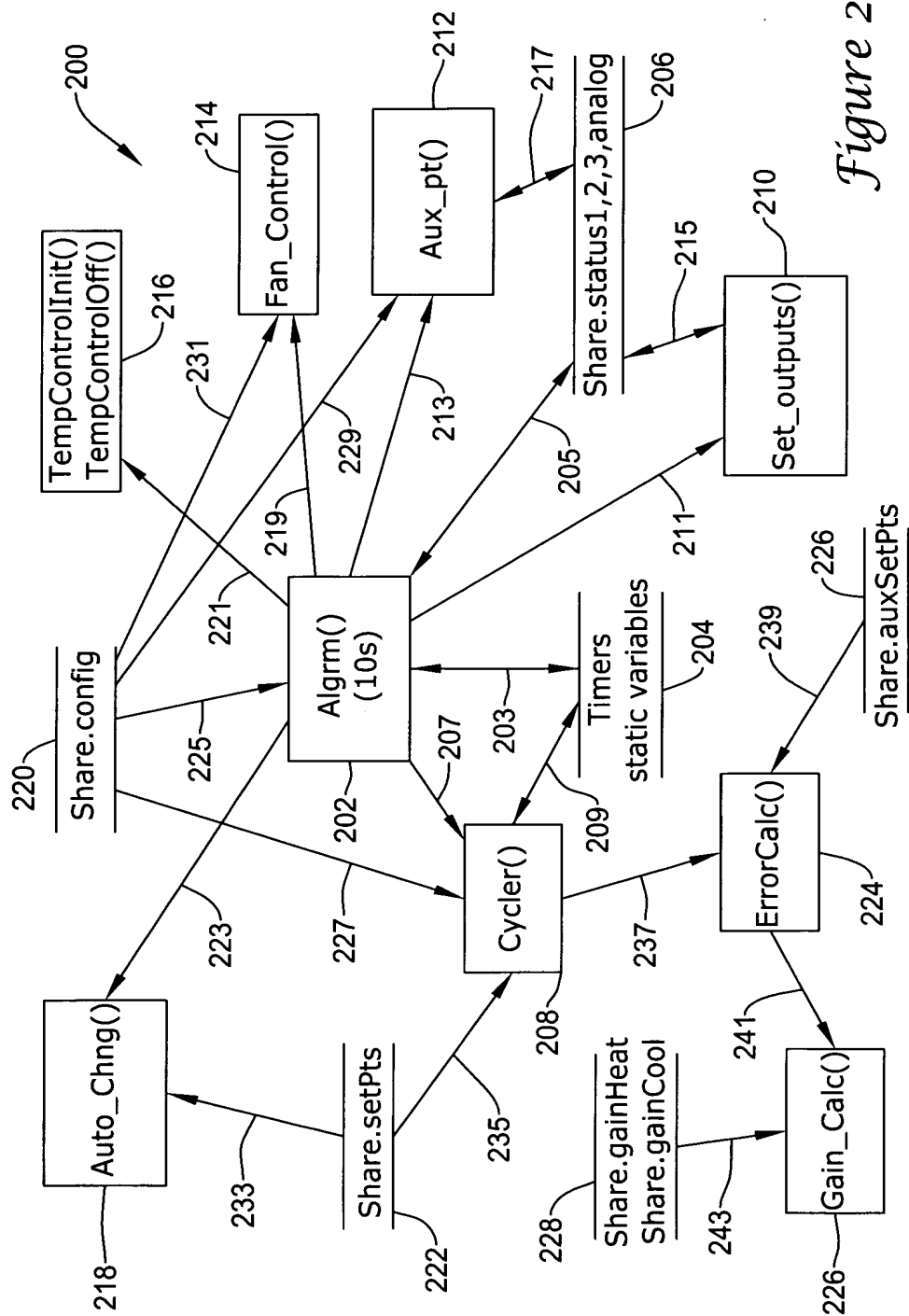


Figure 24

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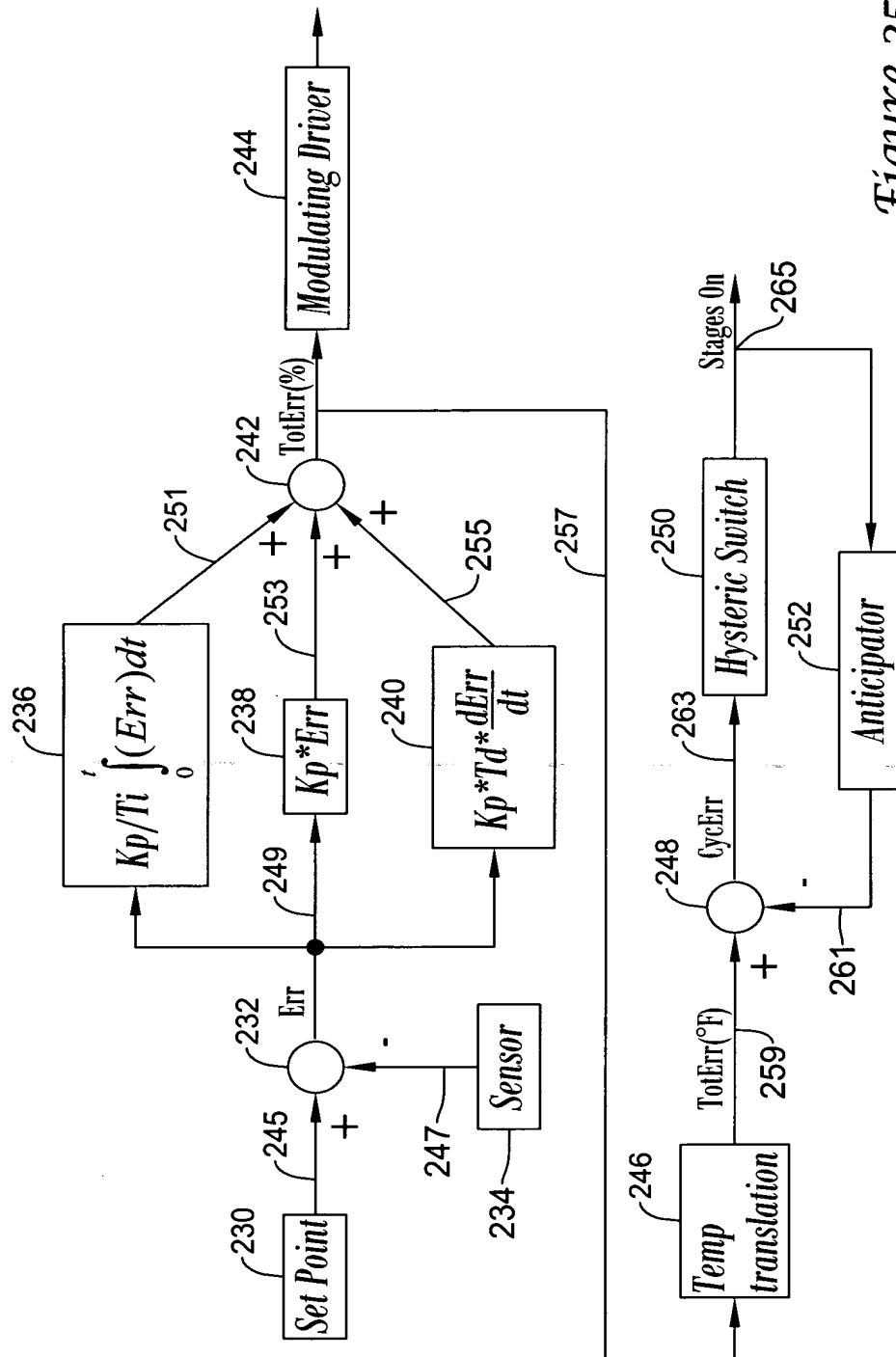


Figure 25A

27/33

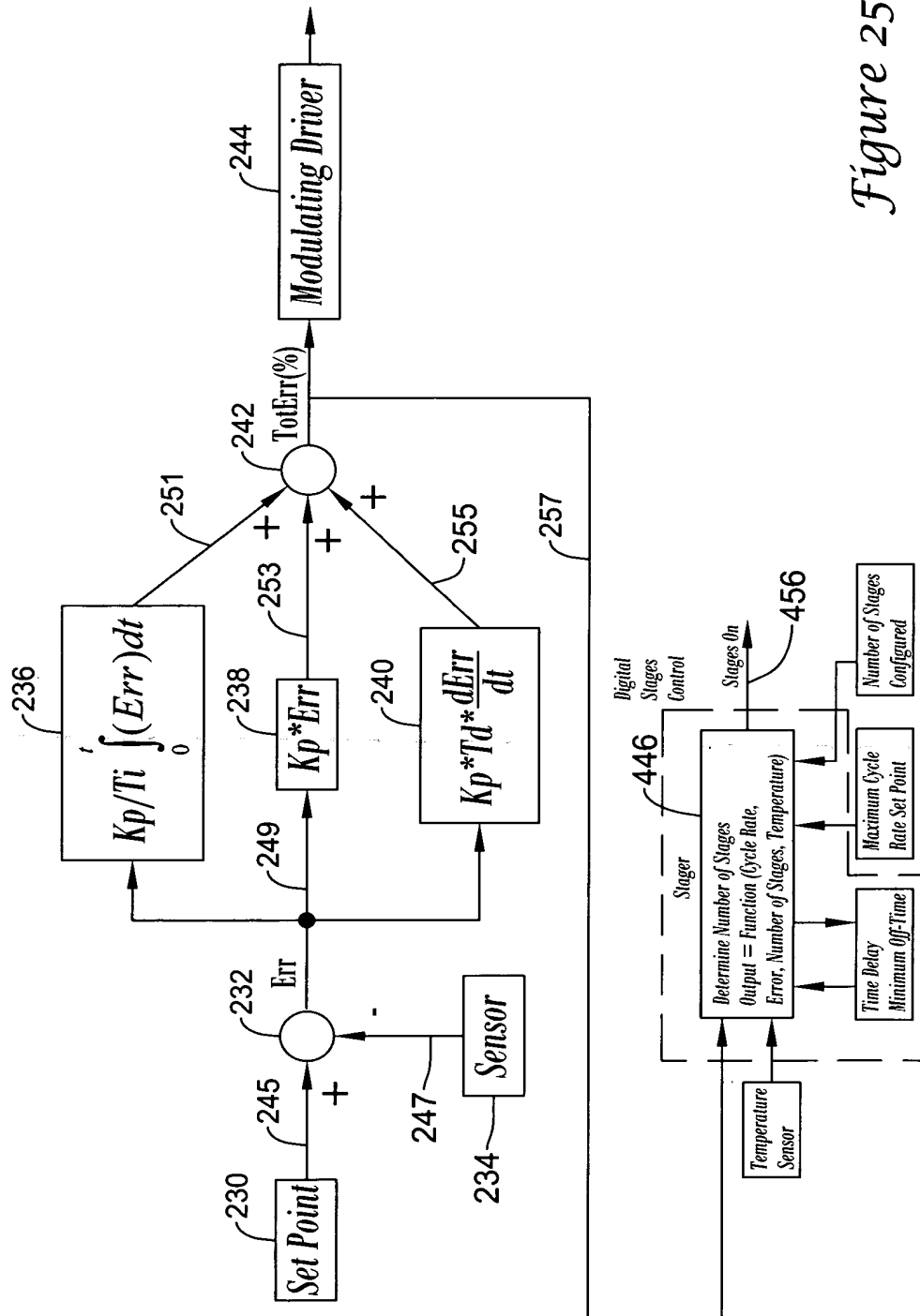


Figure 25B

28/33

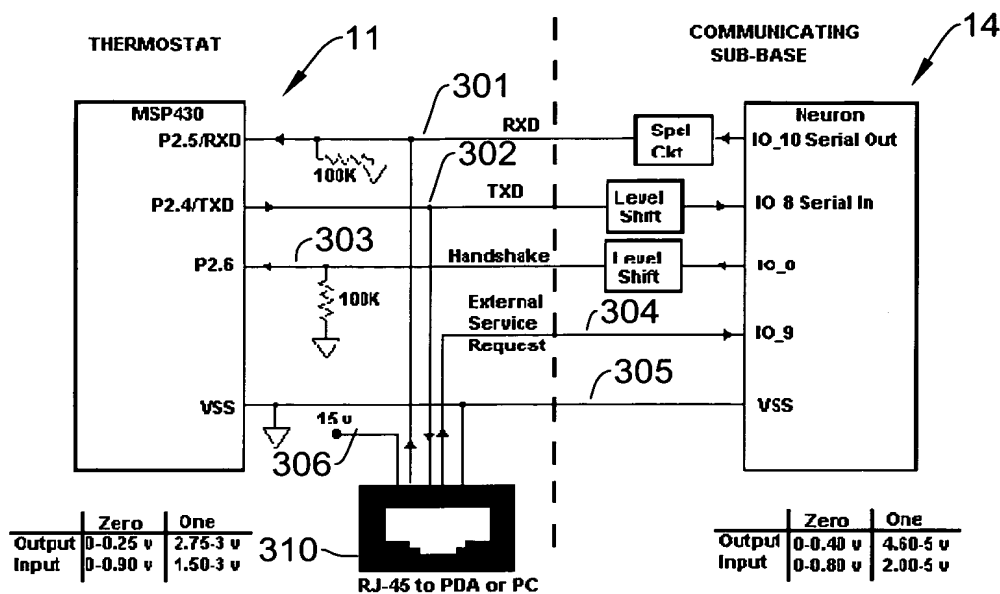


Figure 26

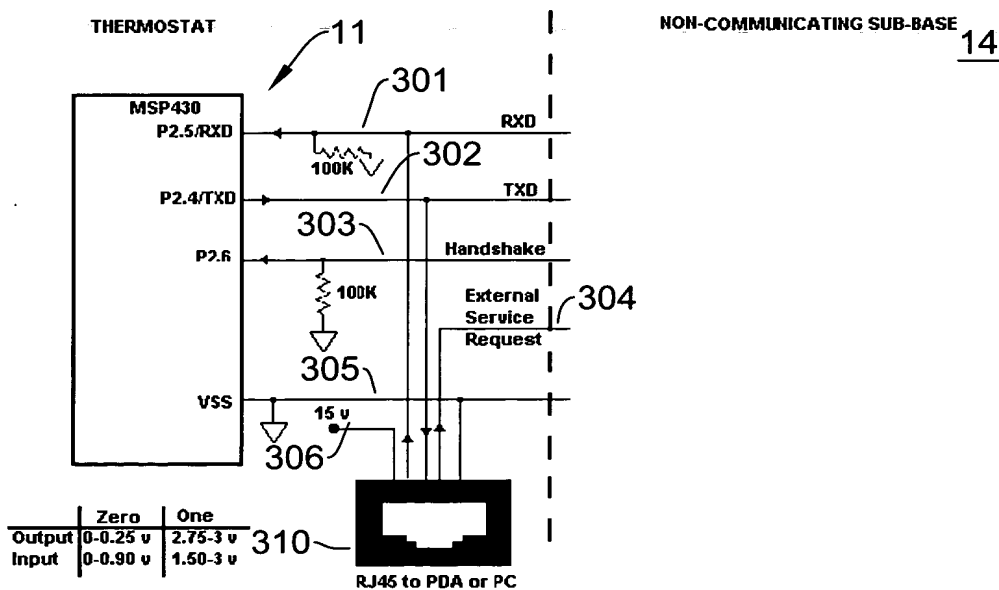


Figure 27

29/33

T7350 Configuration Tool
 Version: diag1

Override Monitor Data
 Set Clock Commission
 Temp SetPts Holidays
 Upload Config Weekly Schedule
 New Config

▼ Select Existing Config

Figure 28A

T7350 Configuration Tool
 Version: diag1

T7350 Online Diagnostics

Please connect PDA serial port to the T7350 using the serial cable & Thermostat Interface Module.

OK Cancel

Figure 28B

Commission Summary

Sensors: Failed
 Fan/Rux: UnTested
 Cooling: OK
 Heating: OK

Error Summary:
 DISCHARGE AIR SENSOR FAILURE:
 Temperature sensor is configured
 and is out of range or disconnected.

REMOTE OUTDOOR AIR SENSOR

Back Next Close

Figure 28C

Sensors

Valid

Room Temp: 73 F ☐
 Remote SetPt: -5 ☐
 Remote Bypass: OFF ☐
 Room Rel Humidity: 55 % ☐
 Occupancy Sensor: OFF ☐
 Discharge Air Temp: Failed ☐
 Outdoor Air Temp: 60 F ☐

Back Next Update Test

Figure 29A

Sensors

Valid

Room Temp: 73 F ☐
 Remote SetPt: -5 ☐
 Remote Bypass: OFF ☐

Testing Room Temp

? Room Temp: 73F
 Please confirm Room Temperature.

Pass Fail

Figure 29B

Sensors

Valid

Room Temp: 73 F ☒
 Remote SetPt: -5 ☐

Testing Remote SetPt

? Remote SetPt: -1
 Please rotate remote setpoint to the full - position (CCW) and tap OK.

OK

Figure 29C

30/33

Sensors	
Room Temp: 73 F	<input checked="" type="checkbox"/> Valid
Testing Remote SetPt	
Full - setting validated. Remote SetPt: -5 Please rotate remote setpoint to the full + position (CW) and tap OK.	
<input type="button" value="OK"/>	

Figure 29D

Sensors	
Room Temp: 73 F	<input checked="" type="checkbox"/> Valid
Remote SetPt: -5	<input checked="" type="checkbox"/>
Testing Remote SetPt	
Full + setting validated. Remote SetPt: +5 Setpoint test sequence completed.	
<input type="button" value="OK"/>	

Figure 29E

Sensors	
Room Temp: 73 F	<input checked="" type="checkbox"/> Valid
Remote SetPt: -5	<input checked="" type="checkbox"/>
Remote Bypass: OFF	<input checked="" type="checkbox"/>
Room Rel Humidity: 55 %	<input checked="" type="checkbox"/>
Occupancy Sensor: OFF	<input checked="" type="checkbox"/>
Discharge Air Temp: Failed	<input checked="" type="checkbox"/>
Outdoor Air Temp: 60 F	<input checked="" type="checkbox"/>
<input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Update"/> <input type="button" value="Test"/>	

Figure 29F

Fan/Auxiliary Equipment	
ManualMode: OFF	<input type="checkbox"/> Valid
Fan - G: OFF	<input type="checkbox"/>
TimeOfDay - A1: OFF	<input type="checkbox"/>
<input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Update"/> <input type="button" value="Test"/>	

Figure 30

Cooling Equipment	
ManualMode: OFF	<input type="checkbox"/> Valid
Fan Status: OFF	<input type="checkbox"/>
Clg Stage1 - Y1: OFF	<input type="checkbox"/>
Clg Stage2 - Y2: OFF	<input type="checkbox"/>
Clg Stage3 - Y3: OFF	<input type="checkbox"/>
<input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Update"/> <input type="button" value="Test"/>	

Figure 31A

Cooling Equipment	
ManualMode: OFF	<input type="checkbox"/> Valid
Fan Status: OFF	<input type="checkbox"/>
Clg Stage1 - Y1: OFF	<input type="checkbox"/>
Testing Cooling Operation	
Fan Status: OFF	
Please confirm it is safe to start the fan.	
<input type="button" value="Yes"/> <input type="button" value="No"/>	

Figure 31B

31/33

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1: OFF

Valid ☐

Testing Cooling Stages

Validated Stage 1
Cooling Operation
Progress: |||||

Cancel

Figure 31G

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1: OFF
Clg Stage2 - Y2: OFF
Clg Stage3 - Y3: OFF

Valid ☒ ☒ ☒

Back Next Update Test

Figure 31H

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1: OFF

Valid ☐

Testing Cooling Stages

of Stages: 1
DischargeAirT: 78F
CoilDeltaT: 0F
Progress: ||

Cancel

Figure 31E

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1: OFF

Valid ☐

Testing Cooling Stages

of Stages: 1
DischargeAirT: 73F
CoilDeltaT: 5F
Progress: |||

Cancel

Figure 31F

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1: OFF

Valid ☐

Testing Cooling Operation

? Fan Status: ON
Please confirm Fan operation.

Pass Fail

Figure 31C

Cooling Equipment

ManualMode: OFF
Fan Status: OFF

Valid ☐

Testing Cooling Stages

? Fan Status: ON
of Stages: 0
Please confirm it is safe to start Cooling Stages.

Yes No

Figure 31D

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Heating Equipment	
ManualMode: OFF	Valid
Fan Status: OFF	
Htg Stage1 - W1: OFF	<input checked="" type="checkbox"/>
<div>Back Next Update Test</div>	

Figure 32E

Heating Equipment	
ManualMode: OFF	Valid
Fan Status: OFF	
Testing Heating Stages	
Htg Stage 1: OFF	
Please confirm it is safe to activate Heating Stage contact.	
<div>Yes No</div>	

Figure 32C

Heating Equipment	
ManualMode: OFF	
Testing Heating Stages	
Htg Stage 1: ON	
Please confirm Heating Stage 1 operation. For example, room baseboard heat is activated.	
<div>Pass Fail</div>	

Figure 32D

Heating Equipment	
ManualMode: OFF	Valid
Fan Status: OFF	
Htg Stage1 - W1: OFF	<input type="checkbox"/>
<div>Back Next Update Test</div>	

Figure 32A

Heating Equipment	
ManualMode: OFF	Valid
Fan Status: OFF	
Testing Heating Operation	
Fan Status: OFF	
Please confirm Fan air flow is required for stage 1 heating.	
<div>Yes No</div>	

Figure 32B

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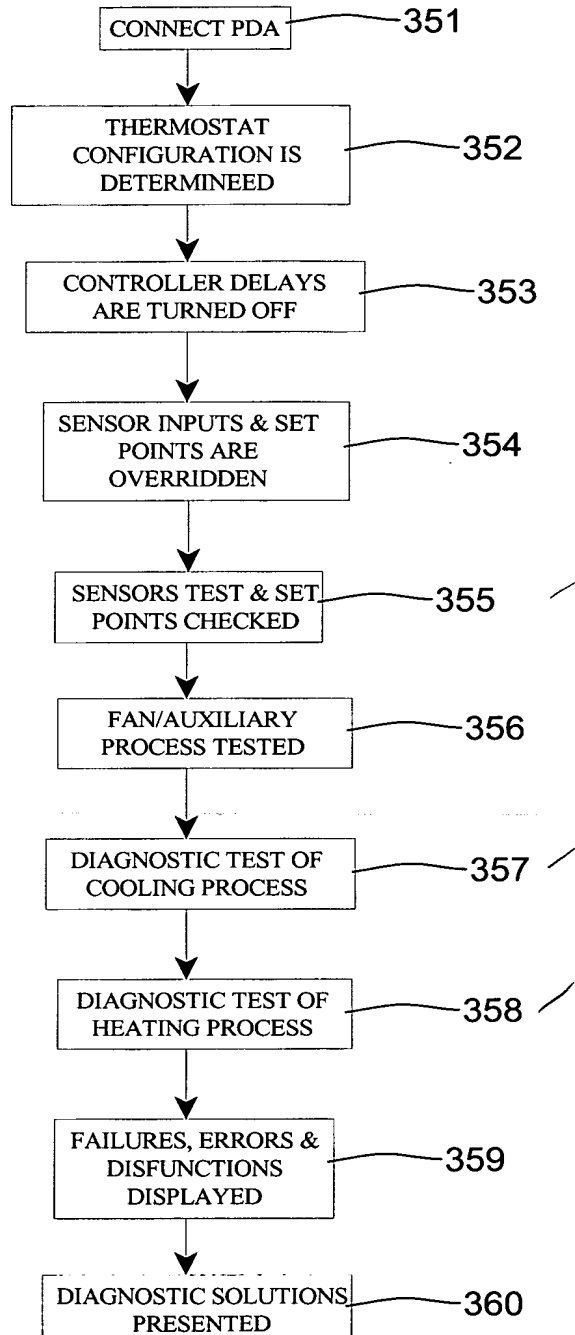


Figure 33